

Multisensor 2251TEM

- **ADM loop technology with System Sensor/200 protocol**
- **Combination of optical and thermal characteristics of fire**
- **Two self-learning and three fixed sensitivity levels**
- **Thermal-only operation**
- **Constant response sensitivity**
- **Function testable with magnet**



Description

The addressable Multisensor 2251TEM uses the scattered light principle as well as a separate thermal detection unit. It was developed to detect the characteristics of fire in a wide range of applications, and to avoid deceptive alarms. The modern design of both measurement systems and the analysis of the parameters by means of a special algorithm allow to reliably evaluate the characteristics of fire.

The sensitivity of the detector can be individually adjusted in 5 steps between 1.5%/m and 5.2%/m according to the application. Three steps have a fixed sensitivity, whereas two self-learning steps automatically adjust the sensitivity to short-term changes of the environmental conditions. Furthermore, the optical detection unit can be completely disabled for a thermal-only operation.

The proven ADM loop technology with System Sensor/200 protocol establishes a permanent communi-

cation between the fire detection control panel and the detector. That ensures a periodical function testing of the detector.

The influence of contamination on the optical measurement system is compensated for by using intelligent evaluation algorithms. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected with two decadic rotary switches, thus allowing to change the detector without additional tools.

A detector function test can be conveniently conducted using a magnet. The detector can be attached to various bases and it can be protected against theft.



Specifications

Operating voltage	Supply through loop voltage
Current consumption	typ. 250µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 – 93% (no condensation)
Dimensions ø × H	102 × 45 (mm)
Colour	cream
Weight	115g
Approvals	VdS G201041
At operation in thermal-only mode:	
EN 54-5 Class A1R	57°C maximum and rate-of-rise activation
Room height	max. 7.5m
Order number	241020
Order name	Optical-Thermal Detector/Anal./200/SS 2251TEM

